Pea Fungicide Trial

Trial ID: 2022-PF07 – R.M. of North Norfolk

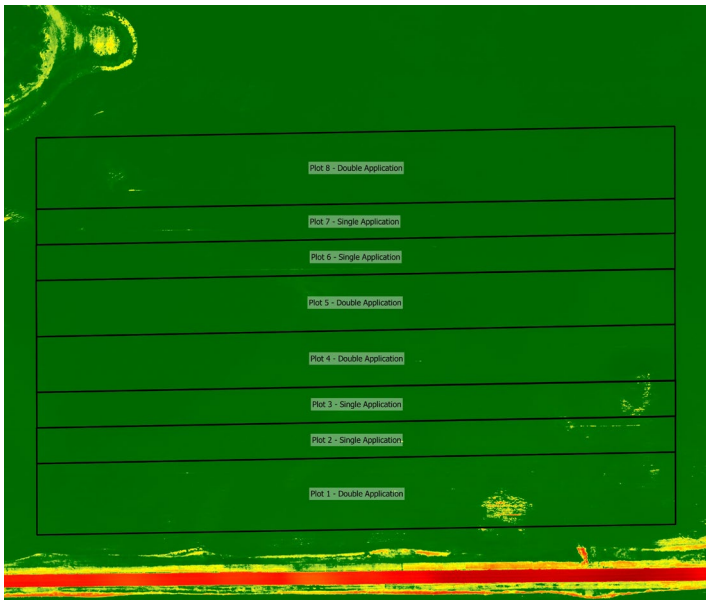
Objective: Quantify the agronomic and economic impacts of a single vs. double foliar fungicide application in field peas.

Summary: The pre-spray check (V9) did not indicate the need for fungicide application. Foliar and stem ascochyta had a minimal presence throughout the trial. There was a significant yield increase of 5.4 bu/ac for peas with a double application of foliar fungicide compared to peas with a single application. As a result, the yield increase was more than enough to pay for the cost/ac from a double application of fungicide.

Trial Information

Treatment	Dyax (Single vs Double)
Application Timing	R1 / R2
Application Date	July 8 / July 18
Application Rate	60 ac/jug
Application Method	Aerial
Soil Texture	Loam
Previous Crop	Wheat
Tillage	Zero Till
Seeding Date	May 28
Variety	CDC Lewochko
Seeding Rate	198 lbs/ac
Row Spacing	12"
Plant Stand @ R3	260,000 plants/ac
Harvest Date	September 9

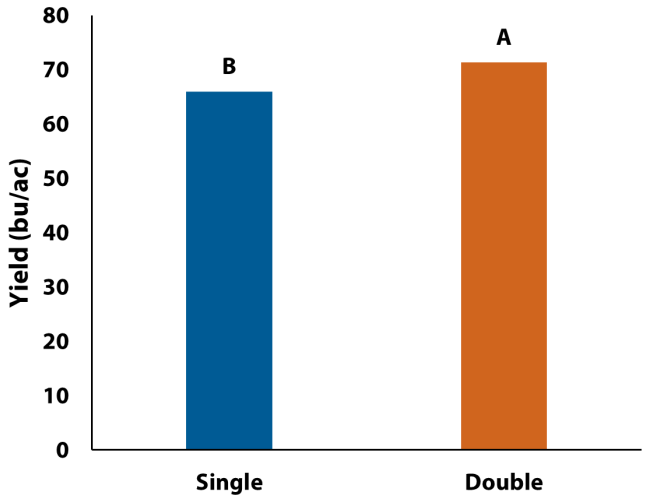
NDVI Field Image August 3



Precipitation (mm)

	May	Jun	Jul	Aug	Total
Rainfall	113.2	49.2	123.1	33.8	319.3
Normal	58	77.1	76.5	58.7	270.3
% Normal	195%	64%	161%	58%	118%

Yield by Treatment



Summary of Disease Rating (R3)†

	Foliar Ascochtya		Stem Ascochyta	
	Single	Double	Single	Double
Incidence	23%	35%	0%	0%
Severity	1.2	1.4	1.0	1.0

† Foliar and stem ascochyta are rated on a scale of 1 (no symptoms) to 7 (stunted/dead plants).

[Additional On-Farm Network Research Reports]

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Overall Yield & Economics

	Mean (bu/ac)	Cost†	Change in Profit/ac††	
			Long-Term Average ($5.33-$11.47/bu)	Current Conditions ($11-$13/bu)
Double Application	71.3	$37/ac	$10-$43/ac	$41-$52/ac
Single Application	65.9	$18.50/ac		
Yield Difference	5.4			
P-Value	0.0465			
CV	13.2%			
Significance	**Yes**	**Economic**	**Yes**	**Yes**

† Based on MB Agriculture 2022 *Cost of Production Guidelines* and industry prices; treatment cost only, does not include application cost.

†† Change in profit/ac is calculated from profit gained or lost due to yield differences, treatment cost/ac, and market prices; Long-term average prices are based on Manitoba Agriculture's Historical Manitoba Crop Prices (2017-2021).

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